



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION 5  
77 WEST JACKSON BOULEVARD  
CHICAGO, IL 60604-3590

REPLY TO THE ATTENTION OF:

**MEMORANDUM**

**DATE:** 7/3/2018

**SUBJECT:** Deviations from Sterigenics QAPP

**FROM:** Jacqueline Nwia, Project Lead  
Air Monitoring and Analysis Section

**TO:** Bilal Qazzaz, QA Coordinator  
Air Monitoring and Analysis Section

This memorandum describes deviations from the Quality Assurance Project Plan for Sterigenics, Willowbrook Illinois Ethylene Oxide Air Monitoring Study, Sterigenics\_QAPP\_1.0.

1. The QAPP specifies that Bilal Qazzaz, QA Manager, will conduct the data validation review. However, due to reassignment of work, Marta Fuoco, of the Air Monitoring and Analysis Section, conducted the data validation review which was completed on June 14, 2018.
2. Eastern Research Group recalculated the Method Detection Limit (MDL) for ethylene oxide and used the updated value for the Sterigenics ethylene oxide data set. The updated MDL is 0.082 ug/m<sup>3</sup>.
3. The QAPP erroneously identified 75% of data completeness for 12-hour composite samples as 16 and grab samples as 12. The correct, 75% of total samples, is as follows:
  - a. 12- hour composite samples:  $19 \text{ total samples} \times 75\% = 14$
  - b. Grab samples:  $22 \times 75\% = 17$